

## ME-77 VOLT-OHMMETER



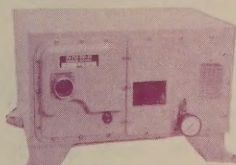
ME-77/URM-105C VOLT-OHM-METER, handy portable meter in ruggedized plastic case has 0-10-100-1000 VDC (20K /v) and VAC (1K /v) ranges; resistance 0-2K-20K-200K-2M-20M ohms. Response 30 Hz-10 KHz; has 3.5" dia FS-50 microammeter. Possible measurements to 100 amps DC using MX-1471 shunt and to 50 KV DC using MX-2005 multiplier (neither available). Requires two AA batteries (not included) for X1-X10-X100 ohms scales; 22.5 VDC battery (not available) for X1K-X10K ohm scales. With test leads and alligator clips; 6.6x4x3.3, 3 lbs sh. Unused, \$22.95

## ZENITH CRT

12" DIAGONAL GREEN VIDEO DISPLAY, p/o Heath/Zenith H/Z-100 microcomputer; includes MN1210P31AU CRT and PC board with adjustable Focus, Brightness, Vert-Size, and Width. Requires 12 VDC and external vert- & horiz-synch. No frame or AC supply. 13 lbs sh. #DJ12NK4, NEW, \$12.95

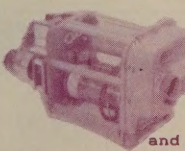


## 1 KW COLLINS COUPLER



CU-714/SRA-22 AUTOMATIC ANTENNA COUPLER, Collins 180T-2; operates from common 115 VAC 50-60 Hz power and usable with 2-30 MHz transmitters having 500 watts average output or 1 KW PEP.

50 ohm input impedance; matches 35 ft whip antenna or 35 ft min. long-wire. Major components motor-driven vacuum capacitor UC5L-465-5, variable ribbon inductor, and blower in cast aluminum cabinet with large lead-in insulator on rear. Originally used with separate control unit (not available). DC output provided for monitoring capacitance and inductance. 11.5x18.9x20, 46 lbs. Used-complete, but not checked, \$149.50 MANUAL, part-repro, \$12. SCHEMATIC only, \$4.



CU-714 "AS-IS" LESS CABINET, some units of above antenna coupler available "damaged" with broken connectors and external corrosion. Because less cabinet, they are less blower and lead-in insulator. "AS-IS" units have good UC5L-465 & ribbon inductor. 8x6.8x5, 18 lbs sh. #CU714-DLC, \$99.50

## 1 KW POWER AMPLIFIER



T-605/ARC-58 TRANSMITTER, functions as 1 KW nominal PEP (400 W PEP AM-SSB-Tone) 2-29.999 MHz linear amplifier when used with R-761/ARC-58 receiver which supplied 0.2 watt PEP input drive. Will operate as 1 KW linear with any 0.2 W input. Two stages of amplification using three 4CX250 tubes in P-A and tuned by servo amplifiers and motors. T-605 requires some frequency band information from a separate control box or panel that operator must provide. Also requires 115 V 400 Hz 3 phase for power supply which has output 2000 VDC 500 MA, 400 VDC, 27.5 VDC, 6.3 VAC, -40 to -80 VDC and 115 V 400 Hz 1 0 for servo motors. With tubes 2/6CL6, 5896, 3/4CX250. 7.8x10.25x24, 55 lbs sh. Used, \$325.00 Connector for T-605/ARC-58, \$5.00 SCHEMATIC for T-605, \$4.00 w/set purchase.

C-3141/TRC-75 CONTROL BOX for T-730/TRC-75, ground version of T-605 above. Provides On/Off, Channel and Mode selection, Gain control for the receiver and transmitter units of the TRC-75 system and appears to be usable with ARC-58 equipment. (Control box schematics essentially the same.) Requires 27.5 VDC. 5.3x5.8x7.8, 6 lbs. Used, \$29.95 CONNECTOR for C-3141 control, \$5.00. SCHEMATIC f/ C-3141 or C-1939/ARC-58, \$2 ea



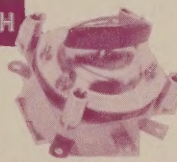
## TRANSFER OSCILLATOR



HEWLETT-PACKARD 2590B TRANSFER OSCILLATOR, usable with HP-5245L frequency counter with 5253B plug-in (page 30, WS-87 Catalog) to extend counter's range to cover 500 MHz to 15 GHz. Phase-locking allows measurements equal to the external time base used. Fundamental freq range 240 - 390 MHz; internal 10 MHz reference. Also automatic search oscillator, AGC, FM discriminator, and envelope detector for FM deviation measurements. 16.8x3.5x16.3, 28 lbs. Used-repairable \$250.

## 200 A TAP SWITCH

ELECTRO-SWITCH 2-POLE 4-POSITION TAP SWITCH rated 200 amp 500 VAC / 250 VDC. One pole "makes" circuit in positions 1 & 2; other pole "makes" in 3 & 4. 9.5x6.5x7.5, 16 lbs. #ES127401A, NEW \$19.95



## 40 FT ALUMINUM MAST SET



AB-86/GRA-4 ANTENNA MAST GROUP, portable set forms 40 foot mast when the sixteen AB-85 36"Lx1.6" dia mast sections are stacked. Also includes 4 each guy ropes MX-381 (40'), MX-382 (31'), MX-383 (50'); 5 ea guy stakes and MX-378 guy rings; plus 1 ea MX-384 insulator base, AB-154 swivel mast base, MX-516 140' halyard, CP-12 counterpoise, HM-1 hammer, W-128 wire, and MX-857 adapter which allows additional 15 ft of height by use of MS-116-117-118 mast sections (not supplied). Set is contained in MX-1116 frame. 85 lbs sh (UPS in 2 pkgs). Used-excellent, \$125.00

## ROLLER INDUCTORS

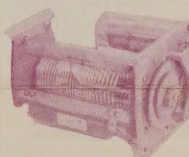


PLATE ROLLER INDUCTOR, 26 turns #16 GA silver-plated wire 3.75"L x 2" dia coil for 14.5 uH max inductance. Has 115 VAC 400 Hz motor/rate generator (will run on 26 V 60 Hz) and 20K ohm multi turn pot geared together

in feedback system. Shaft on inductor can be adapted to direct-drive operation. 0/a 6.75x4x5, 3 lbs. #L13/ARC-58, used, \$36.95

L5 ROLLER INDUCTOR, part of input tuning of ARC-58; 26 turns #18 silver-plated wire 2"L x 1.125" dia coil for 8.4 uH max inductance. Has 115 V 400 Hz motor/rate generator (runs on 26 V 60 Hz) and 20K pot in feedback system. 3/16" dia shaft adapts to direct-drive. 0/a 6x3 x4.75, 3 lbs sh. #L5/ARC-58, used, \$16.95



## RG-213 & RG-214 COAX



High quality coax lengths which substitute for popular RG-8 cable. Each with type "N" connections; unused AT&T surplus: #RG 213-15, 15 ft. length of RG-213; 5 lbs sh. \$8.95 ea, 2/\$16 #RG 214-45, 45 ft. of RG-214 with silver-tinned conductor and double shield for superior performance; 15 lbs. \$24.95 ea, 2/\$45.

**Fair Radio Sales Co.**

1016 E. EUREKA ST.

P. O. BOX 1105

**Lima, Ohio 45802**

**RETURN POSTAGE  
GUARANTEED**

Bulk Rate  
U. S. POSTAGE  
**PAID**  
Lima, Ohio  
Permit No. 74

## FALL 1987 CATALOG SUPPLEMENT



**GOD IS JUST  
A PRAYER AWAY**



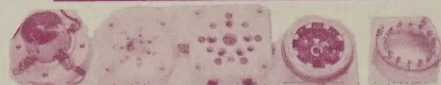
**PRICES ARE F.O.B. LIMA  
ITEMS OVER 70 LBS. SHIPPED  
MOTOR FREIGHT COLLECT  
INCLUDE PAYMENT IN FULL.  
USE YOUR MASTERCARD OR VISA.  
STORE HOURS: Monday thru Friday 9 to 5:30  
Saturday 9 to 1:00**

PHONES: 419/227-6573 — 419/223-2196

**FACSIMILE (FAX) MACHINE LINE  
419/227-1313**



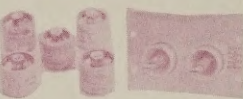
## XMIT TUBE SOCKETS



TRANSMITTING TUBE SOCKETS, popular types for popular tubes; used and new as noted: JOHNSON 209/210, large ceramic 4-pin for 811, 866, 3B28, etc.; 1 lb. Used, \$3.00 JOHNSON 237, ceramic 7-pin f/813. NEW, \$5. JOHNSON 275, ceramic 5-pin for 4-125A, 4-400A, and 3-500Z. Used, \$8.00 ea JOHNSON 112-215-2 silver-plated socket w/ chimney and 1100 pf screen grid bypass capacitor for 4X150/4CX250. Used, \$15.00

## TUBE SPECIALS

RCA 813, 100 W, unused \$24.  
RCA 3B28 RECTIFIER, unused-pull-outs, \$8.00 each  
4CX250R/7580, ruggedized 4CX250B, used-checked \$36.  
WE-310A used-checked \$7.50  
NL8031/5031 NIXIE, new, \$16.  
1N1150 SOLIDSTATE replaces 5Z3-80-82-83, \$8.  
1N1237 SOLIDSTATE replacement f/3B28, \$13.



CENTRALAB 850-SERIES 7.5 KV CAPACITORS designed for RF applications. Each 0.75" dia x 0.5" H; 5% NP0. Used, \$3 ea 2 for \$5. Specify:

10 pf, 25 pf, 50 pf, 75 pf, or 100 pf.  
Centralab 858, 1000 pf 7.5 KV, \$4.00 ea  
\*\*\*\*\*  
HV CAPACITOR ASSEMBLY, two cylindrical capacitors on bracket which is marked "500 pf, 15 KV WDC." These are not Centralab and may not be suitable for RF. However, should be useful for the high voltage experimental! 2x3x2.3, #CAP-500-15KV, NEW \$2.25 ea, 3/\$5.

## JOHNSON DESK MIC

We've bought more of these popular BASE STATION MICS made by Turner for E.F. Johnson. Has built-in preamp and large push-to-talk button. We've had to increase their price but now they include an installed cord and 5-pin connector. Black cast metal; 9 VDC required for preamp. 9.3"H, 3.8x6 base; 3 lbs sh. #JHSM-DM-87, unused, \$19.95

## GM MOBILE MIC

GM DELCO MICROPHONE for mobile communications; black with push-to-talk button switch, coil cord, and 5-pin male connector. Mic 3.3x2.3 x1.8, 2 lbs sh. #GM-DEL-MIC, NEW, \$7.95 ea

## COPPER HOOK-UP WIRE

Vinyl-covered hook-up wire, all stranded copper; no color choice. May not have continuous lengths over 1000 ft.

#10	\$14/100'	\$100/1000'	
#14	\$6.50/100'	\$42/1000'	\$185/5000'
#16	\$4.50/100'	\$28/1000'	\$110/5000'
#18	\$3/100'	\$18/1000'	\$60/5000'
#20	\$2/100'	\$12/1000'	\$30/5000'

## MODUTEC PANEL METERS

Nice contemporary 3"W x 2.25"H panel meters by Modutec for your power supply projects.

Buy individually or as matched set: NEW!  
#MOD-25025-VD, 25-0-25 VDC, \$5.95 ea  
#MOD-10010-AD, 10-0-10 amps DC, \$6.95  
\* Modutec MATCHED SET of above, \$11.00 \*  
\*\*\*\*\*  
WESTON 506 PANEL METER, 0-25 amp DC full scale; 2.5" round. Unused, \$7.95 ea

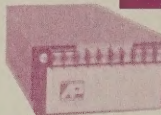
## COMPAQ SWITCHERS

COMPAQ SWITCHING POWER SUPPLIES from the most successful IBM



PC clone; removed from equipment. "AS-IS, not tested" (but cheap!): \$5.95 ea, 2/\$10.  
#COMP-PS-1982 from early portable; outputs +5, -5, +12, -12 VDC. 7.4x5.4x2.4, 3 lbs.  
#COMP-PS-200W, later 200 W supply w/outputs +5, -5, +12, -12 VDC; 9x6x2, 4 lbs.

## DC TO DC CONVERTER



ADTECH DC to DC CONVERTER UNIT, 28 VDC input produces 5 VDC 10 amp and +/-15 VDC 2 A output. Rugged modular style; 2.3x4.8x10, 5 lbs sh. Adtech #3DD5-15N, NEW \$14.95

## 12 VDC LAMBDA SUPPLY

LAMBDA DC REGULATED POWER SUPPLY, supposedly a special cold environment (-40°C) version of LNS-P-12 with reduced output of 12 VDC +/-5% 5.0 amps @ 71°C from 120 VAC +/-10% 60-100 Hz input. Because schematic differences are minimal, we "loaded" the supply and found it to have nearly the same output as the standard LNS-P-12 output of 7.3 amp @ 71°C or 14 amp @ 40°C. Regulation 0.1%; screwdriver Voltage Adjust. Can be rewired for 215-254 VAC input; 11x4.9x4.4, 16 lbs sh. #LNSP12-8182, NEW w/book, \$45.00

## DIODES & FILTER CAPS



DIODE & FILTER ASSEMBLIES removed from 1 KW transmitter. Usable as they are or for parts!

HV DIODE 3 PHASE "Y" BRIDGE from 2000 VDC supply. 6 submodules each with ten 1N1095 diodes & 5 capacitors series-parallel. 3.3x2.3x3.7, 2 lbs sh. #1540/ARC-58, \$6.00  
INPUT FILTER SECTION has 31/ 1000 pf silver plated stud feed-thru capacitors plus 0.02 mf disc caps & chokes. Cheap feed-thru's! 7.5x1.8x3.3, 2 lbs. #CFIL/ARC58, used, \$9.  
\*\*\*\*\*  
0.02 MF 120 KV-WDC PLASTIC CAPACITOR, 17.5"H x6.3"x4.5", 18 lbs sh. Unused, \$150.

## UHF MODULES

MODULES removed from R-540/ARR-40 265-284.9 MHz aircraft receiver. Experimental potential by themselves or together. Connector plugs and schematics included:  
\*\*\*\*\*

MAIN RECEIVER MODULE includes 20 CR-23 crystals for the twenty 1 MHz/step channels. Has 2 RF stages, Injection Osc, Injection Amp, Tripler, and HF Mixer. Mixer output 20.75 MHz; with tubes 3/6AK5, 2/5840, 6021. Requires 120 VDC; filaments need rewired for 6.3 V. 4.5x3x5. #RF-REC/R540, \$7.95

GUARD RECEIVER/ IF MODULE, single channel (238-248 MHz) xtal-controlled receiver with 1.85 MHz IF output from 20.75 MHz input. Tubes 2/5840, 3/6021. Requires 120 VDC; filaments need rewired for 6.3 VAC. 4.5x4.5x1.5, 4 lbs sh. #GUARD/R540, \$6.95  
\*\*\*\*\*

SET both #RF-REC/R540 & #GUARD/R540, \$10.



## 9.5 VDC ADAPTER

AURORA TOY WALL TRANSFORMER, changes 120 VAC to 9.5 VDC 350 ma output. 6' cord with slide lugs; 2 lbs sh. #AUR-95V34VA, \$2.95; 2/\$5.00  
\*\*\*\*\*

CERVCO AC ADAPTER, 11.5 VDC 175 ma output; 6' cord w/o lugs. #CER-11.5V, \$2.50; 2/\$4.

## 30-1000 MHZ RECEIVER

R-484/APR-14 AIRBORNE PANORAMIC SEARCH RECEIVER covers 30-1000 MHz AM-FM in bands 30-210; 210-400 and 400-1000 MHz; has 3" dia CRT for panoramic display of these signals. RF bandpass 6 MHz @ 3 db points. Sensitivity: 11 uv max (30-100MHz), 13 uv (100-300), 16uv (300-1000). Spurious response 45 db down; image reject 60 db down. IF attenuator 0-74 db in 6 db steps. CRT calibration +3 MHz center freq; video response +1 db, 200 Hz-2 MHz. 600 ohms audio; 46/ 7-9-pin mini and octal tubes plus 3J1P, 6F4, and 5678. Req 115 VAC 380-1000 Hz and 24 VDC 20 W. 8x15.5x20, 90 lbs. Used-repairable \$250; MANUAL repro \$15.



## RF WATTMETER & COUPLER



RF WATTMETER with DIRECTIONAL COUPLER CU-987/ GRC-110A, p/o AN/TRC-75; designed for 100 and 1000 watt full scale readings. Directional coupler connects into RF line and provides four outputs: 100 and 1000 watts Forward and Reflected. Reverse function used 100 W range and Forward used 1000 W range in original configuration. Panel has 2.5" dia meter calibrated for 100 and 1000 watts, 5-reed 100-130 V 400 Hz freq meter, two SPST panel and two rotary switches and 150 ohm pot. With schematic. Panel 7.3x5.5x2.5, coupler 4x2.5x2; 4 lbs. #RFMTR/TRC75, used, \$24.95.

## HS-16 HEADSET

HS-16A Headset, popular older communications type; 520 ohm (in series) input impedance and 100-1400 Hz response. Has adjustable padded HB-1 headband and 54" cord with two pin plugs. 3 lbs sh. Unused \$6.95.



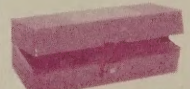
## R-390A R-392 R-648 PARTS

REPLACEMENT ASSEMBLIES & PARTS for the popular military receivers R-390A (A), R-392 (B), and R-648/ARR-41 (C). SPECIFY receiver type and chassis designations of parts!

----- ASSEMBLIES -----  
AUDIO SECTION: \$18(A), \$30(B), \$15(C)  
CRYSTAL CAL CHASSIS, \$30(B)  
CRYSTAL OSCILLATOR (less crystals) \$20(A,B)  
DYNAMOTOR POWER SUPPLY, \$20(C)  
IF SECTION, CHECKED: \$150(A), \$35(B) \$90(C)  
RF AMPLIFIER SECTION, \$15(C)  
RF DECK, complete: \$140(A), \$95(B)  
RF/IF TUNER LESS VFO, \$90(C)  
RF OSC ASSY LESS CRYSTALS, \$15(C)  
SPECTRUM GENERATOR, \$15(C)  
VFO, (COLLINS): \$60(A,B), \$40(C)  
VFO, (NOT COLLINS), \$40(A,B)

----- SMALL PARTS -----  
ANT TRIM KNOB, small, \$1.25 ea (A,B,C)  
AUDIO TRANSFORMERS, \$4.00 ea (A,B,C)  
BAND XTALS \$10 ea (A,B,C); 5/\$35 (if/one Rx)  
BEAT FREQUENCY OSCILLATOR, \$15.00 (B)  
COUNTER DIAL, \$15.00 (A,B,C)  
HANDLES, per pair \$7.00 (A,C)  
200 KHZ CRYSTAL, \$18.00 (A,B)  
MECHANICAL FILTER 1.4 KHz, \$45.00 (C)  
MECH FILTER 2 or 4 KHz(A), 6KHz(C), \$35 ea  
MECHANICAL FILTER 8 KHz, \$27.00 (A)  
MECHANICAL FILTER 16 KHz, \$20.00 (A)  
MHZ/KHZ KNOB: \$6 (A), \$4 (B), \$5 (C)  
PLUGS TO MAKE CORDS W/HOODS, \$6/PR (A,B,C)  
RF, IF, AUDIO GAIN POTS, \$2.00 ea (A,B,C)  
RF-IF-AUDIO KNOB mid-size, \$1.50 ea (A,B,C)  
RF/IF TRANSFORMERS, \$8.00 ea (A,B,C)  
SLUGS, \$3 ea (A,B,C); with SPRINGS, \$4 ea

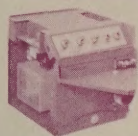
## SPARES CASE



CY-1031 SPARES CASE, originally used with GRR-5; space for 7- and 9-pin mini tubes, 4 GT-tubes, 2 vibrators, and fuses. Hinged w/fastener; 3x9.8x4, 3 lbs. Used, \$4.



## RF TRANSMISSION MONITOR



CARRIER MONITOR couples into antenna transmission line and indicates proper transmission by providing DC and audio current to remote position. Designed to operate with 2 to 30 MHz transmitters having 500 to 50K watts output. Input and output impedance 600 ohms. Includes Sensitivity trimmers for 5 KW-6 KW and 2 KW-50 KW and two 3 pf 15 KV vacuum capacitors for coupling to transmission line. Also tubes OA2, 6AL5, 6J6, 6X4, and manual. Requires 115/230 VAC 60 Hz; 6x8.5 x6.3, 13 lbs sh. #CAR-MON/VC, unused, \$14.95

## MOTORS



12 RPM DC DRIVE MOTOR ASSEMBLY with Globe 27.5 VDC 1/100 HP 15000 RPM motor, 26.5 VDC clutch & geartrain which reduces speed to 12 RPM. Strong torque! W/schematic & plug. 4.5x1.5x4.5, 2 lbs. #12DRV/R540, used \$8.95

27.5 VDC REVERSIBLE PM GEAR MOTOR, 85 RPM no-load speed, 1/4 duty cycle; estimated 75 RPM 100 oz/in torque when under load. Shaft 1/2"L x 5/16" dia with gear. O/A 4x 1.3x1.3, 1 lb. Globe #5A1231, used, \$12.95



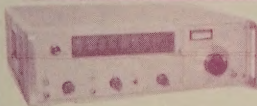
20-60 RPM GEARMOTOR, 28 VDC 0.5 amps reversible PM-type. Has mounting collar and tape recorder reel bobbin on shaft. Shaft 3/8"L x 3/16" dia w/o bobbin. 4"L x 2" dia; 2 lbs. #220504/UNH-6, unused, \$12.95

## 500 KHZ MECH FILTERS

RECEIVER CIRCUIT BOARD with two 500 KHz Collins mechanical filters: #F500Z10 (USB) and #F500Z11 (LSB) plus various transistors, etc. Filters 2.3"L x 0.38" dia; board 4.3x 3.5, 1 lb sh. #RXB-2FIL-500, used, \$12.95

\*JENNINGS CAPACITORS\* JENNINGS VACUUM VARIABLE CAPACITORS, all ratings "peak"; 5 lbs sh. Limited supply! #UCSH-50-45, 10-50 pf 45 KV, unused, \$165. #UCS-300-7.5, 10-300 pf 7.5 KV, unused \$100. #UCS-300-10, 10-300 pf 7.5 KV, used, \$110. #USCL-465-5, 5-465 pf 5 KV, used, \$75. #UCSH-500-15, 25-500 pf 15 KV, unused \$175.

## HEWLETT-PACKARD COUNTER



HP-5245L ELECTRONIC COUNTER, popular solid-state 7-digit plug-in counter with HP-5253 plug-in allowing frequency measurement up to 500 MHz. Wide variety of plug-ins offered by HP makes this a very versatile unit. Sensitivity 100 mv; gate 1 usec to 10 sec in decade steps. Requires 115 VAC 60 Hz; 5.3x16.8x18.3; 36 lbs sh. Used-reparable w/book, \$250.00

HP-5245L MAINFRAME only, usable to 50 MHz, used-reparable with book, \$155.00 \$135.00

## FSK CONVERTER

CV-116/URR FSK CONVERTER for use with receivers having final IF's from 450 to 510 KHz such as R-220, R-388, R-390A, and SP-600. Converts frequency-shift signals into DC pulse that key the energizing of circuits of teleprinters; translates at 100 dot Hz/sec. Unit can be used with two receivers. Channel A IF center freq 50 KHz; Channel B 29.3 KHz. Input FS range 150-1000 Hz, 100 uv minimum; 50 ohm impedance. Separate control unit required between CV-116 and teleprinter to match output-input signals. Requires 115 VAC 60 Hz. 8.8x17x18, 80 lbs sh. Used-reparable, \$100. MANUAL, partial, \$10.



## PRT-4A TRANSMITTER



AN/PRT-4A MINIATURE HELMET TRANSMITTER, designed to operate on two preset channels between 47 and 57 MHz. Output 450 MW (Ch 1), 50-250 MW (Ch 2); 150 Hz modulation disables squelch of PRC-25-77. Also 150 Hz tone output. Requires 12 VDC originally supplied by BA-399 battery (not available); CR-81 crystals not available. With 24" collapsible antenna and battery box; o/a 9x2.6x2, 2 lbs sh. Used, \$39.50

AN/PRT-4 "AS-IS" for parts, less antenna, battery box, and crystals, \$16.95. AN/PRR-9 HELMET RECEIVER, companion to PRT-4-4A, with antenna and headset, used, \$37.50 AN/PRR-9 "AS-IS" CHASSIS only for parts, \$10. OPERATOR'S MANUAL f/ PRT-4-4A & PRR-9, \$7.50 MAINTENANCE MANUAL, partial repro, \$15.00

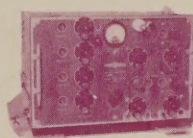
## PRC MODULES

Modules from RT-505/PRC-25 and RT-841/PRC-77 transmitter; removed from sets and/or test kits. Used, with covers but not tested, \$7.50 each.

A-1 DC-DC Conv	A-15 IMC Spec Gen
A-3 Receiver	A-16 Volt Reg
A-4 Receiver	A-17 Phase Comp
A-5 Receiver	A-18 FSS IF
A-6 Trans IPA	A-19 Network
A-7 Trans	A-21 Receiver
A-8 Trans	A-22 Limiter
A-11 Disc	A-23 Tone Gen
A-12 2D Mixer	A-24 Tone Squelch
A-13 53 MC Fil	A-25 Rec Audio
A-14 1ST Mixer	

A-38/PRC-77 Transmitter VFO, \$6.00 ea  
A-40/PRC-77 Interval Oscillator, \$7.50 ea

## BENDIX TRANSMITTER



BENDIX TA-12C TRANSMITTER, 40 watts Phone-CW-MCW covering 300-600 KHz and 3-12 MHz in four bands. Each band has its own oscillator, osc-tuning, and loading controls; 0-5 RF ammeter monitors antenna current. Tubes 4/12SK7 and 3/807. Requires 400 & 260 VDC externally modulated and 6.3 V 3 A originally supplied by MP-288A power supply (not available). 10.5x15x11, 45 lbs. Used-excellent, \$75.00 MANUAL for TA-12C, partial-repro, \$10.00 TA-12G Tx, like "C" except to 9 MHz, \$59.50

## COLECO DRIVE SUPPLY

COLECO DISK DRIVE POWER SUPPLY for ADAM system;

transformer type with outputs +5 V 3 amp, +12 V 2.9 A, -5 V 200 ma, and +18 V inductive 1 A. 115 V 60 Hz input. With cords and On-Off switch. 11x4x8, 10 lbs sh. #COL72559, unused, \$12.95

## CIRCUIT SUPPLY MODULE



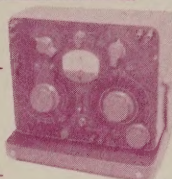
POWER SUPPLY MODULE with 3-conductor cord, fuse, 100/115 V input switch, and 50% Voltage switch. Outputs: 18 V 350 ma and 30 VCT 600 ma. 50% switch results 9 V 350 ma and 15 VCT 600 ma. 6x4 x2.3, 4 lbs. #PSM-4404-87AD, used, \$4.95

## ANDREWS 1-5/8 FITTING



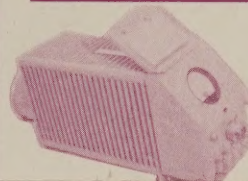
ANDREWS TYPE 83799, a special plated connector similar to 87R for HJ7-50A Helix cable as used in medium power HF, AM, and FM installations. Has 1-5/8" EIA flange; for 50 ohm copper cable. Includes inner connector, "O" ring, silicone grease, and hardware; 6lbs. #83799, NEW, \$20.00

## GR-1650A RLC BRIDGE



GENERAL RADIO 1650A PORTABLE IMPEDANCE BRIDGE, battery-power unit with handy flip-tilt case measures inductance 1 uH to 1100 H in 7 ranges, capacitance 1 pf to 1100 mf in 7 ranges, Storage Factor Q @ 1 KHz 0.02-10 (series L) or 1 to 1000 (parallel L), and Dissipation Factor D @ 1 KHz 0.001-1 (series C) or 0.1-50 (parallel C). Has internal 1 KHz generator; with manual. Requires four D cell batteries (not supplied). 12.8x12.5x7.8, 21 lbs sh. Used-reparable, \$195. Checked, \$250.

## 20-1400 MHZ WATTMETER

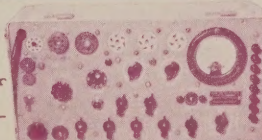


TS-118A WATTMETER, thermocouple type measures RF power over 20-1400 MHz AM-FM-CW in ranges 20 to 100 MHz (2-300 W), 100-300 MHz (2-500 W), 300-700 MHz (2-250 W) and 700-1400 MHz (2-125 W) depending on thermocouple. JC millivoltmeter indicates voltage developed and the reading is translated in RF watts by calibration chart. SWR less than 1.25:1; Input impedance 50 ohms. Can be used as dummy load with proper adapter (not available). Includes thermocouples MX-1781-1782-1783-1785, tuning shunt MX-1784, connector adapter UG-999, and transit case. 8.5x6x20.5, 48 lbs. Used, \$185.00 MANUAL for TS-118A, partial repro, \$8.50

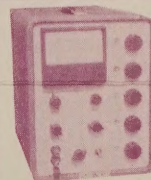
## TV-7 TUBE TESTER

TV-7 TUBE CHECKER, portable unit tests most military and older commercial receiving and low-power transmitting tubes. Indicates dynamic mutual conductance, emissions, gas, noise, and shorts. Test sockets for octal, loctal, 4-,5-,6-,7-pin, 7- and 9-pin miniature, acorn, flat and round subminiature tube base sizes. With tube test data book. Requires 115 VAC 50-1000 Hz. 6.3x8.5x15.8, 22 lbs sh. Used-reparable, \$45.00; Checked, \$75.00

TV-7D, later-model TV-7 (as available): Used-reparable, \$60.00; Checked, \$95.00 MANUAL for TV-7, A, B, D; partial repro, \$10.



## DIFFERENTIAL VM

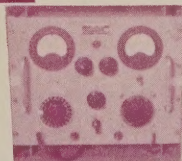


FLUKE 823A AC-DC DIFFERENTIAL VOLTMETER, 0.01 to 500 volts AC-DC; null ranges +/-10, 1, 0.1, 0.01, and 0.001 V AC-DC; +/-100 and 0.0001 V AC only. AC response 20 Hz to 10 MHz. Design accuracy +/-0.01% DC; +/- 0.1% AC. Needs standard cell for reference and 115/230 VAC 50-60 Hz; 12.3x9.5x16, 35 lbs sh. Used-reparable, \$59.50

FLUKE 803B, similar to 823A but null range to 0.001 min; +/-0.05% DC, 0.2% AC, \$39.50 MANUAL for 803, partial reproduction, \$10.

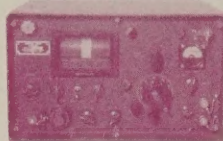
## 1 - 10 GHZ TEST

AN/USM-96 RF POWER TEST SET measures output from 1 to 10 GHz CW, modulated or pulsed. Power input 100 MW to 5 watts using 94CEL (to 1 MW) or 94CEH (to 50 MW) bolometers. Separate CN-540 & CN-541 attenuators extend measurements to 100 MW & 5 W respectively. Has 3.5" dia meters for 0-50 Relative Power and Center Scale Balance. Bolometers, attenuators, MX-2683 bolometer mount, operator's manual included. Requires 115 VAC 50-1600 Hz; 13x13x14, 50 lbs. Used-reparable, \$145.





## R-901/GR DF RECEIVER



R-901/GR DF RECEIVER, 0.54 to 20.5 MHz AM-CW in bands 0.54-1.15, 1.1-2.36, 2.25-4.84, 4.65-9.9 and 9.5-20.5 MHz. 455 KHz IF; bandwidth 1.5 or 4 KHz using two Collins mechanical filters. Built-in crystal calibrator and controls for BFO, RF-AF Gain, Bandwidth, Power Select, Power Monitor meter, Band Switch, Ant Trim. Antenna inputs for 50 ohm directional loop and conventional whip; 600 ohm audio output. Requires 24 VDC or 1.5 V 445 ma and 45 v 30 MA; 11 sub-mini tubes. 8.8x14.5x9, 27 lbs. Used-repairable, \$165.00 CHECKED, \$245. MANUAL, partial repro, \$12.

FAIRCHILD 767H SCOPE, rackmount with DC-50 MHz Dual-Trace 76-08 and Calibrated Delayed Sweep plug-ins; 50 lbs. Repairable, \$295.00 GENERAL RADIO 1026 RF GENERATOR, 9.5-500 MHz AM-CW; 1 MHz cal., 90 lbs. Repairable \$450. TEKTRONIX 434 STORAGE SCOPE, portable DC to 25 MHz dual-trace; full, upper, or lower screen storage. With book, \$1500. \$1250. TEKTRONIX 564 SPLIT-SCREEN STORAGE SCOPE w/ DC-10 MHz Dual-Trace 3A6 and Delay Sweep 3B3 plug-ins; 60 lbs. Repairable, \$495.00 \*\*\*\*\* RYCOM 2174A VOLTMETER-VLF RECEIVER, 0.3 to 420 KHz AM-LSB-USB; built-in speaker and book; 27 lbs. Repairable \$135. Checked \$195. \*\*\*\*\* AT-197/GR DISCONE ANTENNA for 225-400 MHz, 12-rod 26" dia umbrella-shape for HN connection & mount base; 14 lbs sh. Used, \$40.

## LS-454 LOUDSPEAKER



LS-454 LOUDSPEAKER in rugged cast aluminum housing. Similar to LS-166 but does not have Hi-Lo switch and cord has U-229 connector for use with PRC-25/77 and VRC-12 family equipment. 4" dia speaker has heavy duty magnet and 600:8 ohm audio transformer. 5x5 x3.3, 5 lbs sh. Used w/wall bracket, \$16.00

## BC-1306 RECEIVER



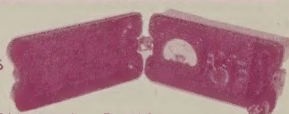
RECEIVER SECTION from BC-1306 Rx-Tx, predecessor of RT-77/GRC-9; covers 3.5 to 6.5 MHz AM-CW-MCW. Has 456 KHz IF; 200 KHz crystal calibration points. Controls for Hi-Med-Lo Sensitivity, Volume, Tuning, Phone-CW-Net-Cal, Dial Light and two Phone jacks. With tubes 2/1L4, 2/1R5, 1S5, 3Q4. Requires +105 VDC 20 ma and 1.5 VDC 450 ma supplied by BA-48 battery listed below. Some minor surface corrosion; 5x9x6, 9 lbs sh. #RX/BC1306, used, \$29.95 SCHEMATIC, \$2.00; BA-48 BATTERY, \$8.95 AN-160 LONG-WIRE ANTENNA, \$12.95

## AB-719 SPRING BASE



AB-719/VRC SPRING ANTENNA BASE, designed to mount on NX-2799/VRC matching unit but will "bolt" to any flat surface. Has BNC RF connection; mates to AT-1096/VRC 52" mast section which screws into AT-1095 64" top section. Mast sections not included. 4.8x9.3x3, 4 lbs sh. Used, \$7.95 AT-1096 MAST, used, \$15; AT-1095, \$12.50

## PRC-6 CHANNEL ALIGNER



ID-292/PRC-6 CHANNEL ALIGNMENT INDICATOR, plugs into RT-196 and indicates relative level voltages for 8+ Filament, Oscillator Injection, Limiter, Discriminator Output, and P-A Grid. Also P-A Current and Calibrate Adjust. Unit is basic VTVM with 1.75" sq. FS=500 ua-meter and 5678 tube. Power from set under test. 2.5x5x2.5, 3 lbs sh. Unused with book and spare 5678, \$28.95

## BA-38 BA-48 BA-270

### MILITARY BATTERY BUY-OUT!

We just purchased tons of equipment batteries from the government; all are unused. Use them as intended or for your own special needs. Not rechargeable.



\*\*\*\*\* BA-38 for SCR-625 mine detector (p 6 WS-87) or BC-611 walkie-talkie; 69 N-cells, 103.5 VDC. 9/81 date; 1.3x1.3x11.7, 1.6 lbs, \$10. BA-48 for Rx section of RT-77/GRC-9 (p 6 WS-87) or BC-1306; 6 CD & 60 A-cells, 1.5 & 90 VDC. 10/81 date; 10x2.2x4.8, 7#, \$8.95 BA-216, twelve "F" cells, 4.5 VDC; 4/80 date code. 3.9x3.9x6, 4.5 lbs sh, \$3.00 BA-232, 15 N-cells, 22.5 Volts; 4/83 date code. 1.6x1.3x3, 0.3 lbs; \$1.25 ea, 5/85. BA-270 for RT-196/PRC-6 walkie-talkie; 24 AA, 93 N-cells, 1.5, 45, 90, -45 VDC. 9/83 date; 2.8x2.1x7.4, 3 lbs. \$8.95 ea, 12/895. BA-279 for PRC-6-9-10 Rx-Tx; 8 CD, 45 B, 45 AA, 8 C-cells, 1.5-67.5-135--6 VDC. 5/79 dates; 8.3x2.3x8.3, 7 lbs; \$7.95 12/872. BA-291, 200 FL-2 cells, 300 VDC; 3/80 date. 2.6x2.2x3.8; 2 lbs, \$3.50 ea, 2 \$6.00 BA-314, 45 FL-3 cells, 67.5 VDC; 6/81 date. 2.8x1.3x2.5, 1 lb; \$1.25 ea, 12/810. BA-406, 2 D-cells, 3 & 1.5 VDC; 7/82 date. 2.6x1.4x3.2, 1 lb, 2/91.50 ea BA-802, 2 F-cells, 1.5 VDC; 6/80 date. 2.6x1.4x4.3, 1 lb, 2/91.50 BA-807, 30 D-cells, 22.5 & 45 VDC; 1/82 date. 7.8x7.1x2.9, 9 lbs; \$8.50 ea, 2/915. BA-1277, 3 R-42R mercury cells, 1.3 VDC; 5/83 date. 2.4x1.3x4.2, 2 lbs, \$2.50 ea BA-1393, 12 RM-3WA mercury cells, 13 VDC; 2/82 date. 5x1" dia, 1 lb; \$2.00, 3/\$5.00



GOULD NICKEL-CADMIUM BATTERY, rechargeable vinyl-covered multi-cell rated 12 VDC 4.0 A-Hr; wire leads. 5.9x3.5x2.6 3 lbs sh. Used-checked \$14.95

## FIELD PHONE-CONTROL SET

We've taken two items in plentiful supply, C-433/GRC CONTROL & H-33 HAND-SET, and have put them together to function as a low cost field telephone compatible with EE-8 and TA-43/312 two-wire field phones. C-433 has handcrank ringing generator and incoming call bell plus circuit for the H-33. Requires two "D" cell batteries (not supplied). C-433 3.5x8.3x7.2; 10 lbs sh. #C433-H33, used, \$24.95; CW-189 CANVAS BAG, holds two C-433's & two H-33's, used \$4.50



## AE PAY TELEPHONES



AUTOMATIC ELECTRIC CHROME PAY TELEPHONES, the genuine glitzy chromed-finish article refurbished with microcircuit electronics, and FCC approved. These working (quarters only) units are intended for use again as public pay phones. Each are set for local calls only with variable call time control, free operator and 911 emergency access, rotary dial and modular jack. Heavy cast-metal construction including keyed coin box. De-regulation of the telephone industry allows businesses and individuals in many states to own and operate pay phones for profit. There are guidelines to be met and local monthly tariffs to be paid but income in excess of the tariff belongs to the phone owner and not the phone company. Gas station-, restaurant-, laundramat- and similar high-traffic business owners especially stand to profit by owning pay phones! Consult your phone utility regarding pay phone ownership requirements. 17x6.5x5.8, 50 lbs. #AE-PP-CHR, chrome with info, \$525. \$425.00 #AE-PP-BC, beige top/chrome bottom, \$375.00

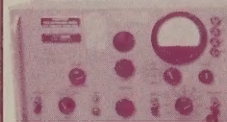
R-391/URR 0.5-32 MHz RECEIVER w/24 VDC pre-set drive. Requires 115 VAC 60 Hz; 90 lbs sh. Repairable w/meters, \$300. MANUAL repro, \$15.

## BURIED WIRE LOCATOR



AT&T MODEL 170A BURIED SERVICE WIRE TEST SET, portable field unit designed to test and trace path of buried telephone wires and to locate wire breaks or line "faults". Consists of 172A Test Set-Transmitter which provides line reference signal and functions Off/Test, Ohms, Trace, Pinpoint and and 171A Test Set-Receiver which "tunes" the reference signal on null meter to find the line or fault. Requires AT-8681 ground probe (not available) and two 6 VDC lantern cells and three 9 VDC transistor batteries (not supplied). With carrying case & operator info; 12 lbs. Used, \$59.50

## DISTORTION ANALYZER



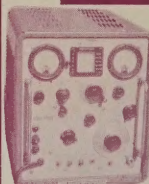
TS-723 DISTORTION ANALYZER, similar to Hewlett-Packard 330B; used to evaluate output of audio amplifiers. Measures harmonic distortion as percentage or in decibels and noise level in RMS or DB values referenced to 1 MW across 600 ohms. Response 20 Hz to 20 KHz; distortion sensitivity as low as 0.3% of meter full scale. Noise amp gain: 40 db +/-1 db from 20 Hz-15 KHz. Gain-level amp gain: 20 db +/-1 db 20 Hz-20 KHz. Input impedance 200K ohms shunted by 40 pf. Built-in AC VTVM has ranges 0.03-300 Vrms in 8 steps; -30 to +50 db in 8 steps. VTVM response 10 Hz-100 KHz. With tubes 6D3, 5Y3, 3/6AC7, 2/6J5, 4/6SJ7, 6Y6. Requires 115/230 VAC 50-1000 Hz. 10.5x19x12, 50 lbs sh. Used-repairable \$165. \$145 Checked, \$210 \$185. MANUAL, part-repro \$10.

## UNIVERSAL BRIDGE



ZM-11 TEST SET, portable bridge unit designed to measure capacitance, inductance, resistance, transformer turn ratio, dissipation factors of inductors and capacitors, and storage factors of inductors--all at 1 KHz test frequency. Also insulation and leakage of electrolytics in circuit using 10.75 MHz test frequency. Capacitance range: 10 pf-100 mf, 1 mf-100 mf, 10 mf-1100 mf. Inductance: 0.1 mH-1 H, 1 H-10 H, 10 H-110 H. Insulation DC res: 200-500 megohm, 5K-10K meg ohm. Transformer turn ratio: 0.01-110 (K=1). DC leakage: 0-1-5-25 ma. Dissipation: 0-0.06 (10 pf-0.1 mf), 0-0.6 (0.1 mf-1100 mf). Q Storage: 0.5-20. DC applied to electrolytics is 500 VDC. Uses test leads with standard banana jacks. (Leads not available.) W/tubes 6E5, 6J6, 2/6AV6, 6AG5, 6AL5, 6AQ5, and 6X4. Requires 115 VAC 50-1000 Hz; 5.8x9x9.8, 18 lbs. Used-repairable, \$85. Checked, \$115.00 MANUAL for ZM-11, partial repro, \$8.50

## H-P VHF GENERATORS



HEWLETT-PACKARD 608-Series VHF SIGNAL GENERATORS, AM-Pulse-CW emission; 400 or 1000 Hz modulation. External modulation 20 Hz to 20 KHz, 0 to 95%. Large 3.5" dia meters indicate Percent Modulation and Output Volts-DBM. Require 115/230 VAC 50-400 Hz; 16.4x13.3x21, 72#.

HP-608C, features broad 10-480 MHz range and high output of 0.1 uV to 1 V into 50 ohms; frequency accuracy +/-1%. Repairable, \$215.00 HP-608D, 10-420 MHz range with built-in 1 & 5 MHz calibrator; Repairable w/book, \$250. HP-608F, later model covers 10-455 MHz with 0.1 uV to 0.5 V output. Built-in crystal calibrator provides check points every 1 MHz upto 270 MHz and 5 MHz check points above; accuracy +/-1%. 608F has phase-lock frequency control capability if used with HP-8708A Synchronizer (not available). Checked, \$425.